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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | | ATTY. DOCKET NO. 1875.0950001 | APPLICATION NO. 10/783,563 |
| | | FIRST NAMED INVENTOR Christopher Ward | |
| | | FILING DATE February 23, 2004 | ART UNIT 2817 |
| | | U.S. PATENT DOCUMENTS | |

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|-----------------------|-------|-----------|-------------|
| <i>dm</i> | AA1 | 3,824,491 | 07/1974 | Treadway | | | |
| <i>dm</i> | AB1 | 4,141,209 | 02/1979 | Barnett <i>et al.</i> | | | |
| <i>dm</i> | AC1 | 4,190,808 | 02/1980 | Fajen | | | |
| <i>dm</i> | AD1 | 4,211,975 | 07/1980 | Kuroda | | | |
| <i>dm</i> | AE1 | 4,353,039 | 10/1982 | Huntley | | | |
| <i>dm</i> | AF1 | 4,789,976 | 12/1998 | Fujishima | | | |
| <i>dm</i> | AG1 | 4,818,903 | 04/1989 | Kawano | | | |
| <i>dm</i> | AH1 | 4,903,329 | 02/1990 | Marik <i>et al.</i> | | | |
| <i>dm</i> | AI1 | 5,006,727 | 04/1991 | Rogosch <i>et al.</i> | | | |

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|---------|---------|-------|-----------|-------------|
| <i>dm</i> | AJ1 | GB 2 058 505 A | 04/1981 | GB | | | N/A |
| <i>dm</i> | AK1 | EP 0 133 618 A1 | 03/1985 | EP | | | N/A |
| <i>dm</i> | AL1 | EP 0 365 085 | 04/1990 | EP | | | N/A |
| <i>dm</i> | AM1 | EP 0 393 717 A2 | 10/1990 | EP | | | N/A |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) | | | | | | | |
|---------------------------------------------------------------------|----|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <i>dm</i> | AN | 1 | Poole <i>et al.</i> , "A CMOS Subscriber Line Audio Processing Circuit Including Adaptive Balance," <i>IEEE International Symposium on Circuits and Systems</i> , Finland, Espoo, Volume 2 of 3, June 7-9, 1988, pp. 1931-1934. | | | | |
| <i>dm</i> | AO | 1 | Poole, S., Surace, G., Singh, B., Dyer, N., "A CMOS Subscriber Line Audio Processing Circuit Including Adaptive Balance," <i>IEEE International Symposium on Circuits and Systems</i> , Finland, Espoo, vol. 2 of 3, Jun. 7-9, 1988, pp. 1931-1934. | | | | |
| <i>dm</i> | AP | 1 | Gilbert, B., "A Low-Noise Wideband Variable-Gain Amplifier Using an Interpolated Ladder Attenuator," <i>1991 IEEE International Solid State Circuits Conference Digest of Technical Papers</i> , pp. 280, 281 and 330 (February 1991). | | | | |
| <i>dm</i> | AQ | 1 | Leung, L.H.Y. and Buchwald, A., "10-MHz 60-dB Dynamic-Range 6-dB Variable Gain Amplifier," <i>Proceedings of 1997 IEEE International Symposium on Circuits and Systems</i> , pp. 173-176 (June 9-12, 1997). | | | | |
| <i>dm</i> | AR | 1 | International Search Report from PCT Appl. No. PCT/US99/26700, filed Nov. 12, 1999, 14 pages (mailed Jan. 10, 2001). | | | | |

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|----------------|
| EXAMINER | <i>MWS</i> | DATE CONSIDERED | <i>4/28/05</i> |
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|----------------------------------------------------------|--|------------------------------------------|-------------------------------|
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|--------------------------|-------|-----------|-------------|
| <i>DR</i> | AA2 | 5,031,233 | 07/1991 | Regan | | | |
| <i>DR</i> | AB2 | 5,077,541 | 12/1991 | Gilbert | | | |
| <i>DR</i> | AC2 | 5,200,826 | 04/1993 | Seong | | | |
| <i>DR</i> | AD2 | 5,251,324 | 10/1993 | McMullan, Jr. | | | |
| <i>DR</i> | AE2 | 5,311,318 | 05/1994 | Dobrovolny | | | |
| <i>DR</i> | AF2 | 5,423,076 | 06/1995 | Westergren <i>et al.</i> | | | |
| <i>DR</i> | AG2 | 5,428,829 | 06/1995 | Osburn <i>et al.</i> | | | |
| <i>DR</i> | AH2 | 5,581,213 | 12/1996 | Linder <i>et al.</i> | | | |
| <i>DR</i> | AI2 | 5,587,688 | 12/1996 | Mulbrook | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|------------------|---------|---------|-------|-----------|-------------|
| <i>DR</i> | AJ2 | EP 0 431 887 | 06/1991 | Europe | | | N/A |
| <i>DR</i> | AK2 | EP 0 629 040 A1 | 12/1994 | Europe | | | N/A |
| <i>DR</i> | AL2 | DE 195 06 324 C1 | 10/1995 | Germany | | | No |
| <i>DR</i> | AM2 | EP 0 767 532 A1 | 10/1996 | Europe | | | N/A |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-----------|----|---|--------------------------------------------------------------------------------------------------------------------------------------|
| <i>DR</i> | AN | 2 | International Preliminary Examination Report from PCT Appl. No. PCT/US99/26700, filed Nov. 12, 1999, 29 pages (mailed Mar. 8, 2001). |
| <i>DR</i> | AO | 2 | Examination Report from European Appl. No. 99965786.9, filed Nov. 12, 1999, 4 pages (dated Jun. 21, 2002). |
| | AP | | |
| | AQ | | |
| | AR | | |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------|
| EXAMINER | <i>DR</i> | DATE CONSIDERED <i>4/2/05</i> |
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| | | | |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|-----------------|-------|-----------|-------------|
| <i>DR</i> | AA3 | 5,630,214 | 05/1997 | Yamamoto et al. | | | |
| <i>DR</i> | AB3 | 5,715,012 | 02/1998 | Patel et al. | | | |
| <i>DR</i> | AC3 | 5,737,035 | 04/1998 | Rotzoll | | | |
| <i>DR</i> | AD3 | 5,757,220 | 05/1998 | Murden et al. | | | |
| <i>DR</i> | AE3 | 5,828,589 | 10/1998 | Degenhardt | | | |
| <i>DR</i> | AF3 | 6,696,898 B1 | 02/2004 | Ward et al. | | | |
| | AG | | | | | | |
| | AH | | | | | | |
| | AI | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|--------------------|---------|---------|-------|-----------|-------------|
| <i>DR</i> | AJ3 | WO 97/09786 | 03/1997 | PCT | | | N/A |
| <i>DR</i> | AK3 | WO 97/32393 | 09/1997 | PCT | | | N/A |
| <i>DR</i> | AL3 | EP 0 803 977 A2&A3 | 10/1997 | Europe | | | N/A |
| <i>DR</i> | AM3 | DE 37 23 778 A1 | 01/1998 | Germany | | | No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|--|--|
| | AN | | |
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| EXAMINER | <i>MJW</i> | DATE CONSIDERED | <i>YR81T</i> |
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|----------------------------------------------------------|--|------------------------------------------|-------------------------------|
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----------------|------|------|-------|-----------|-------------|
| AA | | | | | | |
| AB | | | | | | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------------------------------------------------------------------------|-----------------|----------------|---------|-------|-----------|-------------|
|  | AJ4 | WO 98/47237 A1 | 10/1998 | PCT | | N/A |
| | AK | | | | | Yes |
| | AL | | | | | No |
| | AM | | | | | Yes |
| | | | | | | No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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